

# DART **LSNEXT** Skirted Aluminum GEN III – *Technical notes*

<b>Part Number #</b>	<b>31947111 - 31947242</b>
<b>Material:</b>	<b>RMR Cast Aluminum</b>
<b>Bore:</b>	<b>4.000" or 4.125" w/ 4.165" max bore</b>
<b>Bore &amp; stroke:</b>	<b>4.165" x 4.100" w/ Raised cam</b>
<b>Cam bearing bore ID:</b>	<b>2.2998" - 2.3002"</b>
<b>Cam bearings:</b>	<b>55mm babbitt Dart PN# 32210101-5</b>
<b>Cam bearing O.S.</b>	<b>+.010", +.020", and +.030" available</b>
<b>Cam bearing press:</b>	<b>.002" - .003"</b>
<b>Camshaft position:</b>	<b>Stock or .388" Raised</b>
<b>Camshaft to crank <math>\varnothing</math></b>	<b>4.885"</b>
<b>Camshaft snout:</b>	<b>1.565" O.D</b>
<b>Cam Drive:</b>	<b>Accepts belt drive (*machining required) or stock chain drive.</b>
<b>Cam retaining plate:</b>	<b>Dart cam retaining plate / Cover. Dart PN# 32226000</b>
<b>Cam Plug snap ring:</b>	<b>N/A</b>
<b>Cubic inch:</b>	<b>447 cubic inch max</b>
<b>Cylinder Wall Thickness:</b>	<b>.135" @ 4.165" bore</b>
<b>Deck Height:</b>	<b>9.240" - 9.450" w / extended cylinder barrels .375" at bottom.</b>
<b>Deck Thickness:</b>	<b>5/8" (.625")</b>
<b>Fuel Pump:</b>	<b>Electric pump required</b>
<b>Fuel Pump Pushrod:</b>	<b>N/A</b>
<b>Freeze Plugs:</b>	<b>1-5/16" x 12 Screw in freeze plugs PN#32310000 w/ O-ring PN# 32410000</b>
<b>Lifter Bores:</b>	<b>.8427" - .8437" up to .937" keyed w/ 1.062" dia. Bushing</b>
<b>Main bearing size:</b>	<b>2.558" - 2.559" Dart PN# 9-MS2321H or 9-MS2321HX</b>
<b>Main bearing bore:</b>	<b>2.7508" - 2.7512"</b>
<b>Main caps:</b>	<b>4 bolt billet steel w/splayed centers &amp; center thrust</b>
<b>Oil system:</b>	<b>Low volume priority main oiling system w/ center crossover</b>
<b>Oil Pump:</b>	<b>Melling or Stock LS oil pump</b>
<b>Oil Filter:</b>	<b>O.E.</b>
<b>Oil Pan:</b>	<b>O.E or Aftermarket</b>
<b>Rear Main Seal</b>	<b>Stock LS style with factory cover</b>
<b>Serial No.</b>	<b>Front passenger side below deck surface (XXXLSN)</b>
<b>Sleeve OD:</b>	<b>4.300" O.D.</b>
<b>Sleeve O.S.</b>	<b>.010", .020" and .030" available</b>
<b>Sleeve thickness:</b>	<b>.135" @ 4.165"</b>
<b>Sleeve Length:</b>	<b>5.825" O.A.L</b>
<b>Starter:</b>	<b>Factory LS starter w/ driver and passenger mounting options</b>
<b>Main bolts:</b>	<b>Inners - 7/16" x 3.600" Outer - 7/16" x 2.900"</b>
<b>Studs, heads:</b>	<b>Call for application / See Attached pg.2</b>
<b>Studs holes, Head:</b>	<b>23 bolt pattern with 7/16", 3/8", and 8mm sizes</b>
<b>Stud length in block:</b>	<b>1.800" of thread depth (Requires Special Studs)</b>
<b>Timing chain/gears:</b>	<b>Cloyes Part# 9-3658TX3</b>
<b>Timing Cover:</b>	<b>Factory LS cover and front seal 2005 w/ cam sensor provision</b>
<b>Torque Specs:</b>	<b>All torque specifications w/ CMD #3 High Pressure Lube 7/16" = 65 ft lbs 3/8" = 35 ft lbs 8mm = 22 ft lbs</b>
<b>Weight:</b>	<b>115 lbs - 4.125" bore / 126lbs - 4.000" bore</b>